INDEX TO VOLUME LVIII

(* Indicates new genera, species, names, etc.)

ALBERT, R. O. Another case of injury to the human eye by the walking stick, Anisomorpha (Phasmidae) 57

ALEXANDER, C. P. Undescribed species of crane-flies from the western United States and Canada (Diptera: Tipulidae). Part VII 61

Idem, Part VIII 205

ARNETT, R. H., JR. Epiperipatus braziliensis (Bouvier) on Barro Colorado Island, Canal Zone 59

BANKS, N. A letter to the news 145

BERNER, L. Observations on the mating of Ficalbia (Mimomyia) splendens (Theo.) 101

Unusual larval habitat of Ficalbia (Mimomyia) splendens (Theo.) and Aedomyia africana N.-L. 92

BLISS, R. Q. (See under Moul)

BRADLEY, J. C. News from Italy 19

BROWN, W. L., JR. A note upon two neglected species of Formica Linn. (Hym.: Formicidae) 6

BURKS, B. D. New reared species of Tetrastichus. (Hymenoptera: Chalcidoidea) 85

CALVERT, P. P. Charles Liebeck (obituary) 165

How far can a fly fly? 237

Odonata of voyages under the auspices of the New York Zoological Society 227

Samuel Francis Aaron (obituary) 137

CHAMBERLIN, R. V. A few chilopods taken in Panama by N. L. H. Krauss 146

A new geophilid centiped taken at the Mexican border .. 260

On some millipeds from Micronesia 41

CHERMOCK, R. L. A revisional study of the Euptychia pyracmon group 193

Notes on North American Enodias (Lepidoptera) 29

COOK, C. Notes on the genus Somatochlora collected in Kentucky and Tennessee (Odonata: Cordulinae) 127

Cooke, H. G. Swarm behavior of Hexagenia atrocaudata in relation to temperature and relative humidity (Ephemeroptera) 221
Cresson, E. T., Jr. Review: Fleas of western North America 246
Denning, D. G. New species of Trichoptera from the United States 249
Enns, W. R. A note on the occurrence of the flea, Corrodopsylla hamiltoni Traub, on shrews 212
Evans, H. E. Two new spider wasps from southwestern United States (Hymenoptera: Pompilidae) 10
Freeman, H. A. New skipper records for the United States 184
Frota-Pessoa, O. Concerning Drosophila mallochi Frota Pessoa 151
Fuller, H. S. Review: Pulgas. Bibliografia, catálogo e animas por elas sugados 244
Groskin, H. Nocturnal activities and notes of the ant Lasius (Acanthomyops) interjectus Mayr 67
Haber, V. R. The appearance of two species of exotic cockroaches in Center County, Pennsylvania 101
Hatch, M. H. Reflections on the subspecies 168
Hayes, W. P. and Peh-I Chang. The larva of Pleocoma and its systematic position (Coleoptera: Pleocomidae) .. 117
Hodge, C. IV. (See under Moul)
Jinsheng, L. Institutum Entomologicum Choui 243
Johannsen, O. A. A new species of Hydrobaenus (Chaetocladius) from Connecticut with notes on related forms. (Diptera: Chironomidae) 171
Knowlton, G. F. A new Macrosiphum from Chrysothamnus 47
Knull, J. N. A new species of Hippomelas with notes on two other Buprestidae (Coleoptera) 210
New Elateridae with notes on Eucnemidae (Coleoptera) 177
Two new Elateridae (Coleoptera) 90
Korda, F. H. (See under Richards)
La Rivers I. Some synonymy in Coniotellus (Coleoptera: Tenebrionidae) 213

Moeck, A. H. A new subspecies of Speyeria atlantis (Edwards) from New Mexico (Lepidoptera: Nymphalidae) 73
Moul, E. T. Pink katydid (Amblycorypha oblongifolia De G.) at Woods Hole, Massachusetts 4
Moul, E. T., R. Q. Bliss, C. Hodge, M. E. Phillips, J. W. H. Rehn and H. K. Townes, Jr. Current Entomological Literature
21, 50, 78, 105, 132, 157, 187, 215, 238, 267
Pate, V. S. L. Astata in the Caribbees (Hymenoptera: Sphecidae) 230
On the Gorytine wasps of the West Indies (Hymenopter: Sphecidae) 93
On the identity of Entomobora Gistel, 1857 (Hymenoptera: Psammocharidae) 16
Phillips, M. E. (See under Moul)
Rau, P. A note on the swarming of Stelopolybia pallipes var. anceps de Sauss. 170
Life history notes on the wood-roach, Ischnoptera deropeltiformis Brunner 1
Rehn, J. A. G. The relationship of the neotropical acridine locust genus Machaerocera (Orthoptera: Acrididae; Acridinae) 113
Rehn, J. W. H. Review: Insect Microbiology 83
(See under Moul)
Remington, P. S. Notes on the type locality of Speyeria egleis secreta dos Passos and Grey 99
Richards, A. G. Sterility in insects 262
Richards, A. G. and F. H. Korda. Electron micrographs of centipede setae and microtrichia 141
Robinson, M. A Canthon with an abnormal tibia 259
A new food supply for Latrodectes mactans 258
A new species of Stenocrates from Central America ... 233
Notes on a few Scarabaeidae 149
Sabrosky, C. W. Rhodesiella: A genus new to the Western Hemisphere. (Diptera: Chloropidae) 174

SCHMIEDER, R. G. More about dancing bees 152
Review: Chemical insect attractants and repellents 247
Review: Insects and human welfare 273
Review: Pacific Science 20
Review: Sexual behavior in the human male 274
SHAPPIRIO, D. G. Notes on District of Columbia wasps.. 18
STABLER, R. M. Megarhinus septentrionalis from Pennsylvania 232
STALLINGS, D. B. and J. R. TURNER. Texas Lepidoptera (with description of a new subspecies) 36
STEYSKAL, G. C. Distributional notes on Lauxaniidae mostly from the Great Smoky Mountains National Park (Diptera) 72
Summa Brasiliensis Biologiae 20
The distribution by states of United States insect collection records 154
TOWNES, H. K., JR. (See under Moul)
TURNER, J. R. (See under Stallings)
WEISS, H. B. Field releases of Microplectron fusipennis Zett. in New Jersey 19
Recollections about Samuel Francis Aaron 235
Production of Macrocentrus ancylivorus Rohw. in New Jersey (Hymen.) 19
WHITE, B. E. A new species of Taphrocerus (Coleoptera: Buprestidae) 181
WHITNEY, R. C. Notes on Tanypteryx hageni 103
WOOD, S. L. (See Knowlton)

GENERAL SUBJECTS

Abnormal tibia in *Canthon* .. 259
Ants, nocturnal activity 67
Attractants and repellents (review) 247
Australian locusts 49
Bees, dancing 152
Bees, language of 152
Black widow, food of 258
Bologna, war damage 19
Centipede setae, electron micrographs 141
Collections, distribution of by States 154
Current Entomological Literature ..21, 50, 78, 105, 132, 157, 187, 215, 238, 267
DDT and malaria in Italy 76
Distribution of insect collections 156

Dragonfly larval habitat 103
Electron micrographs of setae and microtrichia 141
Entomological Departments, Minnesota 263
Eye injury by walking-stick .. 57
Flies, flight distance 237
Insect microbiology (review). 83
Insects and human welfare (review) 273
Institutum Entomologicum Choui 243
International Congress 104
Italy, news from 19
Katydid, pink 4
Larval habit of *Ficalbia* 92
Larva of *Pleocoma* 117
Macrocentrus production 19
Malaria in Italy 76
Mayflies swarming 221
Minnesota, entomology at Univ. of 264
Mosquitoes, mating 101
Museum, Hamburg 105
New journals 20
Nocturnal activity, ants 67
Pacific Science 20
Peripatus habits 59
Peru, request for data 156
Pink katydid 4
Pleocoma larva 117
Relationship in *Machacroccra* 113
Releases of *Microplectron* ... 19
Rockefeller Foundation 76
Sterility in insects 262
Subspecies, reflections on the. 168
Summa Brasiliensis 20
Swarm behavior, mayflies ... 221
Swarming of *Stelopolybia* ... 170
Tanypteryx biology 103
von Frisch's work on bees ... 152
War damage, Bologna 19
War damage, Hamburg Museum 105
Wasp notes 18
Wood roach, life history 1

OBITUARY NOTICES

Aaron, S. F. 49, 137, 235
Finzi, Dr. 19
Gestro, Dr. 19
Liebeck, C. 165

PERSONALS

Chou Io 243
Cresson, E. T., Jr. 98, 145
Grandi, G. 19
Haber, V. R. 104
Kröber, O. 105
Miller, E. M. 204
Rehn, J. A. G. 49
(See list of entomologists at Minnesota) 266

REVIEWS

Chemical insect attractants and repellents 247
Coleopterist's Bulletin 110
Fleas of Western North America 245
Insect Microbiology 83
Insects and Human welfare .. 273
Lepidopterist's News 111
Pacific Science 20
Plant Diseases 214
Pulgas, Bibliografia, catálogo e animas por elas sugados 244
Sexual behavior in the human male 274
Summa Braziliensis 20
Systema Naturae 110

GEOGRAPHICAL DISTRIBUTION

Arizona: Dipt. 209; Hym. ... 14
Bahamas: Odon. 230
Bermuda: Odon. 229
California: Col. 183, 210; Dipt. 63, 65, 67, 206, 208; Homop. 48; Hym. 14, 16
Colorado, Hym. 16
Connecticut: Dipt. 172

Florida: Col. 179; Lepid. ... 134
Galapagos: Odon. 227
Georgia: Col. 179; Trich. 250, 251, 252, 254, 256
Guatemala: Col. 234
Idaho: Homop. 48
Illinois: Hym. 86, 89
Kentucky: Odon. 128, 129, 130
Mexico: Chilopod 260; Col. .. 212
Micronesia: Milliped..44, 45, 46, 47
Minnesota: Trichop. 250, 252
Nevada: Homop. 48
New Jersey: Col. 150
New Mexico: Lepid. 73, 200; Hym. 14, 16
North Carolina: Dipt. 73, 175; Lepid. 34; Trich. 257
Ohio: Col. ..91, 178, 179, 180, 181
Oklahoma: Col. 179
Oregon: Homop. 48
Panama: Chilopods 147; Col. 234
Pennsylvania: Col. 90, 149, 178; Dipt. 232; Orth. 101
South Carolina: Col. 150, 179; Lepid. 34; Trich. 256
Tennessee: Dipt. 72, 73; Odon. 128, 130, 131
Texas: Col. 178, 180; Lepid..36, 184
Utah: Homop. 47, 48
Vermont: Col. 149
Washington: Homop. 48
West Indies: Hym. ...94, 96, 230

COLEOPTERA

alleghensis, Dalopius* 90
amocnicornis, Deltometopus .. 181
bicarinatus, Stenocrates* 233
bicolor, Aphodius 150
brunneata, Hippomelas* 210
castanea, Autoserica 258
Coniontellus, synonymy 213
georgiana, Phyllophaga 151
guttatus, Aphodius 149
inflatus, Coniontellus 213
insculptus, Atacnius 150
lataflava, Acmaeodora 211
manitobensis, Aphodius 149
mercedensis, Taphrocerus* .. 182
meridianus, Limonius* 177
multistigmosa, Chrysobothris.. 211
nigricornis, Canthon 259
ohioensis, Dalopius* 91
olentangyi, Limonius* 179
pectinatus, Dirhagus 181
penetrans, Nematodes 181
Pleocoma, larva of 117
Pleocoma, systematic position 117
pubicollis, Limonius 178
robinsoni, Ludius* 180
ruficornis, Isorhipis 180
rufipes, Deltometopus 181
wenzeli, Atacnius 150

DIPTERA

Aedomyia, habitat 92
aegypti, Aedes 77
africana, Aedomyia 92
africanus, Aedes 77
brimleyi, Rhodesiella** 174
circularis, Tipula* 64
curtirostris, Elephantomyia* .. 208
cylindricornis, Lauxania 73
domestica, Musca 237
Ficalbia, habitat 92
Ficalbia, mating of 101
Flies, flight distance 237
fraterna, Homoneura 72
hirtiloba, Phyllolabis* 66
houghi, Homoneura 72
Hydrobaenus, key to some eastern males 173
labranchiae, Anopheles 76
Lauxaniidae in Great Smoky Mts. 72
lupulina, Minettia 73
magna, Minettia 73
mallochi, Drosophila 151
melanogaster, Drosophila 262
muscaria, Xenochactina 73
nupta, Limnophila* 207

Onychaspidium 176
opaca, Lauxaniella 73
palmarum, Tipula* 61
palustris, Drosophila 151
*Rhodesiella** 175
septentrionalis, Megarhinus .. 232
sequoicola, Tipula* 205
simpsoni, Aedes 77
splendens, Ficalbia 92, 101
stamfordi, Hydrobaenus* 171
Tipula (*Hesperotipula**) 63
trivittata, Lauxaniella 73
vomitoria, Calliphora 237

HOMOPTERA

aaroni, Macrosiphum* 47
chlorophainus, Capitophorus .. 48
elongatus, Capitophorus 48
gregarius, Capitophorus 48
magnautcnsis, Capitophorus .. 48
oestlundi, Capitophorus 48
palmerae, Capitophorus 48
utcnsus, Capitophorus 48
xerozoous, Capitophorus 48

HYMENOPTERA

aestivalis, Entomobora 17
alaya, Psammaecius* 96
ancylivorus, Macrocentrus 19
anthophilus, Tetrastichus* ... 85
Ants, nocturnal habits of 67
aterrima, Formica 8
Bees, language of 152
dominica, Astata* 230
Entomobora 16
fusca densiventris, Formica .. 7
fuscipennis, Microplectron ... 19
Gorytine wasps of West Indies 93
hesperius, Tetrastichus* 88
interjectus, Lasius 67
jamaica, Ochleroptera* 94
latimana, Didineis 18
luctuosum, Podium 18
mellifica, Apis 152
Nocturnal habits of *Lasius* ... 67
orophilus, Pompilus* 14
squamosa, Vespula, habits 18
xerophilus, Anoplius* 10

LEPIDOPTERA

alcestis oslari, Strymon 40
asander form *panthius, Aguna* 185
atlantis dorothea, Speyeria* .. 73
begga pyralina, Gorgythion .. 186
cestri, Thecla 39
chinatiensis, Melitaca 36
chinayiensis, Pseudohazis 41
chiron, Timetes 37
clinas, Euptychia 200
clytie, Strymon 39
clyton louisa, Asterocampa* .. 38
costimaculata, Pellicia 185
dorothea, Euptychia 196
egleis secreta, Speyeria 99
Enodius notes 29
eulalia, Heterochroa 37
Euptychia, subg. *Cyllopsis,* key 201
eurydice appalachia, Lethe* (*Enodia*) 33
gemma, Euptychia 197
hedemanni, Euptychia 200
Hesperiidae, new records 184
leilia cocles, Asterocampa 27
Lethe, checklist 35
lycophron pallas, Papilio 36
nayarit, Euptychia* 198
nelsoni, Euptychia 200
pastor, Strymon 39
pephredo, Euptychia 196
pyracmon, Euptychia 195
simacthis sarita, Strymon 40
simplex, Adopaeoides 41
spurina, Thecla 39
Texas Lepid. 36

ODONATA

filosa, Somatochlora 130
hageni, Tanypteryx 103
linearis, Somatochlora 128
Odonata of voyages 227

provocans, Somatochlora 129
Somatochlora of Kentucky and Tennessee 127
Tanypteryx, habits 103
tenebrosa, Somatochlora 129
williamsoni, Somatochlora ... 131

ORTHOPTERA

Amblycorypha 4
australasiae, Periplaneta 101
Australian locusts, revision .. 49
deropeltiformis, Ischnoptera .. 1
ferruginea, Anisomorpha 57
Ischnoptera, life history 1
Katydid, pink 4
Machaerocera, relationships of 113
oblongifolia, Amblycorypha .. 4
Phasmid, eye-injury by 57
supellectilium, Supella 101
Wood-roach, life history 1

SMALLER ORDERS

atrocaudata, Hexagenia 211
bidentata, Hydropsyche* 254
celta, Nyctiophlax* 251
daggi, Athripsodes* 254
Fleas of the world (review) .. 244
Fleas of western North America (review) 246
georgiana, Protoptila* 250
hamiltoni, Corrodopsylla (Siphon.) 212
Hexagenia swarming behavior 211
Isonychia swarming 226
moselyi, Chimarra* 251
rileyi, Lepidostoma* 257
saloris, Neophylax 256
talola, Protoptila* 249
Trichoptera 249
wabasha, Cheumatopsyche* ... 252

NON-HEXOPODA

annectus, Cryptops* (Chilop.) 146
*Apoxenus** (Diplopod) 46
*Apunguis** (Chilopod) 260
braziliensis, Epiperipatus 59
brevilabiatus, Orphnaeus 149
Centipede, electron micrographs of setae and microtrichia ... 141
*Cyochilus** (Chilop.) 147
forceps, Scutigera 141
Latrodectes, food of 258
lissior, Polyconoceras* 44
maxillaris, Mecistocephalus .. 149
Millipeds from Micronesia ... 41
micronesius, Apoxenus** 46
panamicola, Cymochilus** 148
peripatus, habitat 59
prosoicus, Apunguis** (Chilop.) 260
Schendylidae (Chilop.), key to genera 147
townesi, Trucobolus** 43
*Trucobolus** (Milliped) 41
utagalus, Trigoniulus* 45
viridis, Scolopendra 146